

Facsimile of Form PT0-1449 (REV. 6-89)	U.S. Department of Commerce Patent and Trademark Office	ATTORNEY'S DOCKET NUMBER WG-97-10	SERIAL NUMBER 08/970,631 RECEIVED MAY 20 1998
Information Disclosure Citation		APPLICANT Barr et al	
(Use Several Sheets If Necessary)		FILING DATE 11/14/97	GROUP, ART. UNIT 2800

U.S. Patents

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>a</i>	5,724,306	03/98	Barr	367	15	07/95
<i>a</i>	5,572,483	11/96	Chambers et al	367	45	
<i>a</i>	5,550,786	08/96	Allen	367	48	
<i>a</i>	5,524,100	06/96	Paffenholz	367	24	
<i>a</i>	5,491,669	02/96	Chambers	267	49	
<i>a</i>	5,448,531	09/95	Dragoset, Jr.	367	45	
<i>a</i>	5,293,352	03/94	Chambers	367	38	
<i>a</i>	5,182,558	01/93	Mayo	341	118	
<i>a</i>	5,138,583	08/92	Wason et al	367	38	
<i>a</i>	4,982,374	01/91	Edington et al	367	48	
<i>a</i>	4,954,998	09/90	Rector	367	82	
<i>a</i>	4,935,904	06/90	Chambers et al	367	38	
<i>a</i>	4,935,903	06/90	Sanders et al	367	24	
<i>a</i>	4,878,204	10/89	Black et al	367	53	
<i>a</i>	4,750,180	06/88	Doyle	371	67	
<i>a</i>	4,706,231	11/87	Mueller et al	367	190	
<i>a</i>	4,680,741	07/87	Wales et al	367	189	
<i>a</i>	4,616,352	10/86	Sallas et al	367	190	
<i>a</i>	4,556,962	12/85	Windrow	367	45	
<i>a</i>	4,541,275	09/85	Kerzner	73	152	
<i>a</i>	4,246,652	01/81	Khan et al	367	42	
<i>a</i>	4,204,229	05/80	Heuze	358	169	
<i>a</i>	4,133,409	01/79	Mifsud et al	181	114	
<i>a</i>	4,056,163	11/77	Wood et al	181	113	
<i>a</i>	4,021,772	05/77	Cook et al	340	15.5DP	
<i>a</i>	4,021,649	05/77	Fort et al	235	151.3	
<i>a</i>	4,016,531	04/77	Cook et al	340	15.5DP	

Examiner

Date Considered

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

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Information Disclosure Citation		APPLICANT Barr et al	
(Use Several Sheets If Necessary)		FILING DATE 11/14/97	GROUP ART UNIT 1500

U.S. Patents

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>an</i>	3,894,222	07/75	Siems	235	151.3	
<i>dh</i>	3,786,409	01/74	Sorkin	340	15.5CC	
<i>dh</i>	3,731,269	05/73	Judson et al	340	15.5CC	
<i>or</i>	3,731,268	05/73	Landrum, Jr.	340	15.5TA	
<i>or</i>	3,705,382	12/72	Quay	340	15.5CC	
<i>or</i>	3,704,444	11/72	Schmitt	340	15.5DP	
<i>a</i>	3,703,632	11/72	Shanka	235	152	
<i>or</i>	3,638,175	01/72	Stone	340	15.5	
<i>or</i>	3,629,800	12/71	Schneider	340	15.5	
<i>or</i>	3,611,279	10/71	Hensley	340	15.5	
<i>or</i>	3,521,241	07/70	Rumble	340	172.5	
<i>or</i>	3,512,127	05/70	Burg	340	15.5	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>or</i>	"Seismic Vibrator control and the downgoing P-wave," Sallas, Vol. 49, No. 6, Geophysics, June 1984, pp. 732 - 740.
<i>or</i>	"The Effect of Harmonic Distortion In The Use of Vibratory Surface Sources," Seriff et al, Vol. 35, No. 2, Geophysics, April 1970, pp. 234 - 246.
<i>or</i>	"Continuous Signal Seismograph," Crawford et al, Vol. XXV, No.1, Geophysics, Feb. 1960, pp. 95 - 105.
<i>or</i>	"Optimum Least - Squares Pulse Compression of Vibroseis Signals," Landrum, 42nd Int'l Meeting SEG, Nov. 1972, pp. 1 - 27.
<i>or</i>	"Elimination of ghost noise in vibroseis data by deconvolution," Li, Univ. of Karlsruhe Geophysical Institute, Jan. 30, 1996, pp. 4 - 6.

Examiner <i>an</i>	Date Considered 6/99
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